Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

(Original) A light emitting device comprising:
a light emitting layer portion composed of a III-V compound semiconductor;

a transparent thick-film semiconductor layer having a thickness of $10~\mu m$ or more, formed on at least one main surface of the light emitting layer portion, and composed of a III-V compound semiconductor having a band gap energy larger than a light quantum energy equivalent to a peak wavelength of emission flux from the light emitting layer portion,

the transparent thick-film semiconductor layer has the side face portions configured as chemically-etched surfaces, and has a doping-controlled region having a controlled dopant concentration of 5×10^{16} /cm³ to 2×10^{18} /cm³, both ends inclusive, formed therein to a thickness of 10 μ m or more.

- 2. (Original) The light emitting device as claimed in Claim 1, wherein the thickness of the transparent thick-film semiconductor layer is 40 μ m or more, and the thickness of the doping-controlled layer in the transparent thick-film semiconductor layer is 40 μ m or more.
- 3. (Previously Presented) The light emitting device as claimed in Claim 1, wherein the light emitting layer portion, considered as having one of two main surfaces thereof as a first main surface, has a main light extraction surface formed on the first main surface side thereof, a light-extraction-surface-side metal electrode is disposed on the main light extraction surface so as to cover a part of thereof, and on the other hand, the transparent thick-film semiconductor layer is provided only on the second main surface side of the light emitting layer portion.

- 4. (Previously Presented) The light emitting device as claimed in Claim 1, wherein the transparent thick-film semiconductor layer is disposed on the first main surface side of the light emitting layer portion, and assuming the first main surface of the transparent-thick-film semiconductor layer as the main light extraction surface, the light-extraction-surface-side metal electrode is disposed so as to cover a part thereof.
- 5. (Original) The light emitting device as claimed in Claim 4, wherein a metal reflective layer is disposed on the second main surface side of the light emitting layer portion.
- 6. (Original) The light emitting device as claimed in Claim 4, wherein a first transparent thick-film semiconductor layer is provided on the first main surface side of the light emitting layer portion, and a second transparent thick-film semiconductor layer on the second main surface side thereof, respectively as the transparent thick-film semiconductor layer.
- 7. (Previously Presented) The light emitting device as claimed in Claim 1, wherein the light emitting layer portion has a double heterostructure composed of AlGaInP, and the transparent thick-film semiconductor layer is composed of any one of GaP, GaAsP and AlGaAs.
 - 8. (Canceled)
- 9. (Previously Presented) The light emitting device as claimed in Claim 1, wherein the transparent thick-film semiconductor layer is a single-crystal substrate composed of a III-V compound semiconductor, bonded to the light emitting layer portion.
 - 10. (Original) A method of fabricating a light emitting device comprising:

fabricating a wafer which comprises a light emitting layer portion composed of a III-V compound semiconductor; and a transparent thick-film semiconductor layer having a thickness of 10 µm or more, formed on at least one main surface of the light emitting layer portion, and composed of a III-V compound semiconductor having a band gap energy larger

than a light quantum energy equivalent to a peak wavelength of emission flux from the light emitting layer portion; and dicing the wafer to divide it into the individual device chips;

also forming, in the transparent thick-film semiconductor layer, a doping-controlled region having a controlled dopant concentration of $5\times10^{16}/\text{cm}^3$ to $2\times10^{18}/\text{cm}^3$, both ends inclusive, to a thickness of 10 μ m or more, and removing a process-damaged layer, formed on the side face portions of the transparent thick-film semiconductor layer, by chemical etching after the dicing.

- 11. (Original) The method of fabricating a light emitting device as claimed in Claim 10, wherein the transparent thick-film semiconductor layer is composed of any one of GaP, GaAsP and AlGaAs, and an aqueous sulfuric acid/hydrogen peroxide solution is used as an etchant of the chemical etching.
- 12. (Previously Presented) The light emitting device as claimed in Claim 2, wherein the light emitting layer portion, considered as having one of two main surfaces thereof as a first main surface, has a main light extraction surface formed on the first main surface side thereof, a light-extraction-surface-side metal electrode is disposed on the main light extraction surface so as to cover a part of thereof, and on the other hand, the transparent thick-film semiconductor layer is provided only on the second main surface side of the light emitting layer portion.
- 13. (Previously Presented) The light emitting device as claimed in Claim 2, wherein the transparent thick-film semiconductor layer is disposed on the first main surface side of the light emitting layer portion, and assuming the first main surface of the transparent-thick-film semiconductor layer as the main light extraction surface, the light-extraction-surface-side metal electrode is disposed so as to cover a part thereof.

- 14. (Previously Presented) The light emitting device as claimed in Claim 13, wherein a metal reflective layer is disposed on the second main surface side of the light emitting layer portion.
- 15. (Previously Presented) The light emitting device as claimed in Claim 13, wherein a first transparent thick-film semiconductor layer is provided on the first main surface side of the light emitting layer portion, and a second transparent thick-film semiconductor layer on the second main surface side thereof, respectively as the transparent thick-film semiconductor layer.
- 16. (Previously Presented) The light emitting device as claimed in Claim 2, wherein the light emitting layer portion has a double heterostructure composed of AlGaInP, and the transparent thick-film semiconductor layer is composed of any one of GaP, GaAsP and AlGaAs.
 - 17. (Canceled)
- 18. (Previously Presented) The light emitting device as claimed in Claim 2, wherein the transparent thick-film semiconductor layer is a single-crystal substrate composed of a III-V compound semiconductor, bonded to the light emitting layer portion.